Buttons example Enable / disable

It can often be useful to be able to dynamically enable and disable buttons based on the document state and other components in the table. A typical example of this is to enable a button that will take action on a selected row in the table, only when there is a row selected! If there is no row selected, the button should not take any action when clicked upon (i.e. it is disabled).

This example makes use of the [Select extension](https://datatables.net/extensions/select) for DataTables to provide row selection. The [select](http://datatables.net/reference/event/select) event it listened for to know when the row selection has changed and then update the button's enabled / disabled state through the [button().enable()](http://datatables.net/reference/api/button().enable()) method.

The [button()](http://datatables.net/reference/api/button()) method is a selector method that will use the information given to it to select the buttons that the subsequent methods will take action on. There is also a [buttons()](http://datatables.net/reference/api/buttons()) method that can be used to select multiple buttons (the DataTables API makes [significant use of this plural / singular distinction](https://datatables.net/manual/api#Plural-/-Singular)).

The [button-selector](http://datatables.net/reference/type/button-selector) used in this example is a simple index selector - button 1 and button 2. Based on the number of rows selected the enablement state is adjusted. The first button is enabled when there is only one row selected, the second when one or more rows are selected.

Note that the Select library provides a number of button types such as [selected](http://datatables.net/reference/button/selected) and [selectedSingle](http://datatables.net/reference/button/selectedSingle) that provide this enable / disabled option without the additional code shown in this example.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Position | Office | Age | Start date | Salary |
| Name | Position | Office | Age | Start date | Salary |
| Tiger Nixon | System Architect | Edinburgh | 61 | 2011/04/25 | $320,800 |
| Garrett Winters | Accountant | Tokyo | 63 | 2011/07/25 | $170,750 |
| Ashton Cox | Junior Technical Author | San Francisco | 66 | 2009/01/12 | $86,000 |
| Cedric Kelly | Senior Javascript Developer | Edinburgh | 22 | 2012/03/29 | $433,060 |
| Airi Satou | Accountant | Tokyo | 33 | 2008/11/28 | $162,700 |
| Brielle Williamson | Integration Specialist | New York | 61 | 2012/12/02 | $372,000 |
| Herrod Chandler | Sales Assistant | San Francisco | 59 | 2012/08/06 | $137,500 |
| Rhona Davidson | Integration Specialist | Tokyo | 55 | 2010/10/14 | $327,900 |
| Colleen Hurst | Javascript Developer | San Francisco | 39 | 2009/09/15 | $205,500 |
| Sonya Frost | Software Engineer | Edinburgh | 23 | 2008/12/13 | $103,600 |
| Jena Gaines | Office Manager | London | 30 | 2008/12/19 | $90,560 |
| Quinn Flynn | Support Lead | Edinburgh | 22 | 2013/03/03 | $342,000 |
| Charde Marshall | Regional Director | San Francisco | 36 | 2008/10/16 | $470,600 |
| Haley Kennedy | Senior Marketing Designer | London | 43 | 2012/12/18 | $313,500 |
| Tatyana Fitzpatrick | Regional Director | London | 19 | 2010/03/17 | $385,750 |
| Michael Silva | Marketing Designer | London | 66 | 2012/11/27 | $198,500 |
| Paul Byrd | Chief Financial Officer (CFO) | New York | 64 | 2010/06/09 | $725,000 |
| Gloria Little | Systems Administrator | New York | 59 | 2009/04/10 | $237,500 |
| Bradley Greer | Software Engineer | London | 41 | 2012/10/13 | $132,000 |
| Dai Rios | Personnel Lead | Edinburgh | 35 | 2012/09/26 | $217,500 |
| Jenette Caldwell | Development Lead | New York | 30 | 2011/09/03 | $345,000 |
| Yuri Berry | Chief Marketing Officer (CMO) | New York | 40 | 2009/06/25 | $675,000 |
| Caesar Vance | Pre-Sales Support | New York | 21 | 2011/12/12 | $106,450 |
| Doris Wilder | Sales Assistant | Sidney | 23 | 2010/09/20 | $85,600 |
| Angelica Ramos | Chief Executive Officer (CEO) | London | 47 | 2009/10/09 | $1,200,000 |
| Gavin Joyce | Developer | Edinburgh | 42 | 2010/12/22 | $92,575 |
| Jennifer Chang | Regional Director | Singapore | 28 | 2010/11/14 | $357,650 |
| Brenden Wagner | Software Engineer | San Francisco | 28 | 2011/06/07 | $206,850 |
| Fiona Green | Chief Operating Officer (COO) | San Francisco | 48 | 2010/03/11 | $850,000 |
| Shou Itou | Regional Marketing | Tokyo | 20 | 2011/08/14 | $163,000 |
| Michelle House | Integration Specialist | Sidney | 37 | 2011/06/02 | $95,400 |
| Suki Burks | Developer | London | 53 | 2009/10/22 | $114,500 |
| Prescott Bartlett | Technical Author | London | 27 | 2011/05/07 | $145,000 |
| Gavin Cortez | Team Leader | San Francisco | 22 | 2008/10/26 | $235,500 |
| Martena Mccray | Post-Sales support | Edinburgh | 46 | 2011/03/09 | $324,050 |
| Unity Butler | Marketing Designer | San Francisco | 47 | 2009/12/09 | $85,675 |
| Howard Hatfield | Office Manager | San Francisco | 51 | 2008/12/16 | $164,500 |
| Hope Fuentes | Secretary | San Francisco | 41 | 2010/02/12 | $109,850 |
| Vivian Harrell | Financial Controller | San Francisco | 62 | 2009/02/14 | $452,500 |
| Timothy Mooney | Office Manager | London | 37 | 2008/12/11 | $136,200 |
| Jackson Bradshaw | Director | New York | 65 | 2008/09/26 | $645,750 |
| Olivia Liang | Support Engineer | Singapore | 64 | 2011/02/03 | $234,500 |
| Bruno Nash | Software Engineer | London | 38 | 2011/05/03 | $163,500 |
| Sakura Yamamoto | Support Engineer | Tokyo | 37 | 2009/08/19 | $139,575 |
| Thor Walton | Developer | New York | 61 | 2013/08/11 | $98,540 |
| Finn Camacho | Support Engineer | San Francisco | 47 | 2009/07/07 | $87,500 |
| Serge Baldwin | Data Coordinator | Singapore | 64 | 2012/04/09 | $138,575 |
| Zenaida Frank | Software Engineer | New York | 63 | 2010/01/04 | $125,250 |
| Zorita Serrano | Software Engineer | San Francisco | 56 | 2012/06/01 | $115,000 |
| Jennifer Acosta | Junior Javascript Developer | Edinburgh | 43 | 2013/02/01 | $75,650 |
| Cara Stevens | Sales Assistant | New York | 46 | 2011/12/06 | $145,600 |
| Hermione Butler | Regional Director | London | 47 | 2011/03/21 | $356,250 |
| Lael Greer | Systems Administrator | London | 21 | 2009/02/27 | $103,500 |
| Jonas Alexander | Developer | San Francisco | 30 | 2010/07/14 | $86,500 |
| Shad Decker | Regional Director | Edinburgh | 51 | 2008/11/13 | $183,000 |
| Michael Bruce | Javascript Developer | Singapore | 29 | 2011/06/27 | $183,000 |
| Donna Snider | Customer Support | New York | 27 | 2011/01/25 | $112,000 |

* Javascript
* HTML
* CSS
* Ajax
* Server-side script

The Javascript shown below is used to initialise the table shown in this example:

$(document).ready(function() { var table = $('#example').DataTable( { dom: 'Bfrtip', select: true, buttons: [ { text: 'Row selected data', action: function ( e, dt, node, config ) { alert( 'Row data: '+ JSON.stringify( dt.row( { selected: true } ).data() ) ); }, enabled: false }, { text: 'Count rows selected', action: function ( e, dt, node, config ) { alert( 'Rows: '+ dt.rows( { selected: true } ).count() ); }, enabled: false } ] } ); table.on( 'select', function () { var selectedRows = table.rows( { selected: true } ).count(); table.button( 0 ).enable( selectedRows === 1 ); table.button( 1 ).enable( selectedRows > 0 ); } ); } );

In addition to the above code, the following Javascript library files are loaded for use in this example:

* [//code.jquery.com/jquery-1.12.3.min.js](http://code.jquery.com/jquery-1.12.3.min.js)
* [../../../../media/js/jquery.dataTables.js](http://docs.google.com/media/js/jquery.dataTables.js)
* [../../js/dataTables.buttons.js](http://docs.google.com/js/dataTables.buttons.js)
* [../../../Select/js/dataTables.select.js](http://docs.google.com/Select/js/dataTables.select.js)

The HTML shown below is the raw HTML table element, before it has been enhanced by DataTables:

This example uses a little bit of additional CSS beyond what is loaded from the library files (below), in order to correctly display the table. The additional CSS used is shown below:

The following CSS library files are loaded for use in this example to provide the styling of the table:

* [../../../../media/css/jquery.dataTables.css](http://docs.google.com/media/css/jquery.dataTables.css)
* [../../css/buttons.dataTables.css](http://docs.google.com/css/buttons.dataTables.css)
* [../../../Select/css/select.dataTables.css](http://docs.google.com/Select/css/select.dataTables.css)

This table loads data by Ajax. The latest data that has been loaded is shown below. This data will update automatically as any additional data is loaded.

The script used to perform the server-side processing for this table is shown below. Please note that this is just an example script using PHP. Server-side processing scripts can be written in any language, using [the protocol described in the DataTables documentation](http://datatables.net/manual/server-side).

Other examples

[**Basic initialisation**](http://docs.google.com/initialisation/index.html)

* [Basic initialisation](http://docs.google.com/initialisation/simple.html)
* [File export](http://docs.google.com/initialisation/export.html)
* [Custom button](http://docs.google.com/initialisation/custom.html)
* [Class names](http://docs.google.com/initialisation/className.html)
* [Keyboard activation](http://docs.google.com/initialisation/keys.html)
* [Collections](http://docs.google.com/initialisation/collections.html)
* [Multi-level collections](http://docs.google.com/initialisation/collections-sub.html)
* [Auto close collection](http://docs.google.com/initialisation/collections-autoClose.html)
* [Plug-ins](http://docs.google.com/initialisation/plugins.html)
* [`new` initialisation](http://docs.google.com/initialisation/new.html)
* [Multiple button groups](http://docs.google.com/initialisation/multiple.html)
* [Page length](http://docs.google.com/initialisation/pageLength.html)

[**HTML 5 data export**](http://docs.google.com/html5/index.html)

* [HTML5 export buttons](http://docs.google.com/html5/simple.html)
* [Tab separated values](http://docs.google.com/html5/tsv.html)
* [File name](http://docs.google.com/html5/filename.html)
* [Copy button internationalisation](http://docs.google.com/html5/copyi18n.html)
* [Column selectors](http://docs.google.com/html5/columns.html)
* [Format output data - orthogonal data](http://docs.google.com/html5/outputFormat-orthogonal.html)
* [Format output data - export options](http://docs.google.com/html5/outputFormat-function.html)
* [Excel - Bold text](http://docs.google.com/html5/excelTextBold.html)
* [Excel - Cell background](http://docs.google.com/html5/excelCellShading.html)
* [Excel - Customise borders](http://docs.google.com/html5/excelBorder.html)
* [PDF - message](http://docs.google.com/html5/pdfMessage.html)
* [PDF - page size and orientation](http://docs.google.com/html5/pdfPage.html)
* [PDF - image](http://docs.google.com/html5/pdfImage.html)
* [PDF - open in new window](http://docs.google.com/html5/pdfOpen.html)
* [Custom file (JSON)](http://docs.google.com/html5/customFile.html)

[**Flash data export**](http://docs.google.com/flash/index.html)

* [Flash export buttons](http://docs.google.com/flash/simple.html)
* [Tab separated values](http://docs.google.com/flash/tsv.html)
* [File name](http://docs.google.com/flash/filename.html)
* [Copy button internationalisation](http://docs.google.com/flash/copyi18n.html)
* [PDF message](http://docs.google.com/flash/pdfMessage.html)
* [Page size and orientation](http://docs.google.com/flash/pdfPage.html)
* [Hidden initialisation](http://docs.google.com/flash/hidden.html)
* [SWF file location](http://docs.google.com/flash/swfPath.html)

[**Column visibility**](http://docs.google.com/column_visibility/index.html)

* [Basic column visibility](http://docs.google.com/column_visibility/simple.html)
* [Multi-column layout](http://docs.google.com/column_visibility/layout.html)
* [Internationalisation](http://docs.google.com/column_visibility/text.html)
* [Restore column visibility](http://docs.google.com/column_visibility/restore.html)
* [Select columns](http://docs.google.com/column_visibility/columns.html)
* [Visibility toggle buttons](http://docs.google.com/column_visibility/columnsToggle.html)
* [Column groups](http://docs.google.com/column_visibility/columnGroups.html)
* [State saving](http://docs.google.com/column_visibility/stateSave.html)

[**Print**](http://docs.google.com/print/index.html)

* [Print button](http://docs.google.com/print/simple.html)
* [Custom message](http://docs.google.com/print/message.html)
* [Export options - column selector](http://docs.google.com/print/columns.html)
* [Export options - row selector](http://docs.google.com/print/select.html)
* [Disable auto print](http://docs.google.com/print/autoPrint.html)
* [Customisation of the print view window](http://docs.google.com/print/customisation.html)

[**API**](http://docs.google.com/index.html)

* [Enable / disable](http://docs.google.com/enable.html)
* [Dynamic text](http://docs.google.com/text.html)
* [Adding and removing buttons dynamically](http://docs.google.com/addRemove.html)
* [Group selection](http://docs.google.com/group.html)

[**Styling**](http://docs.google.com/styling/index.html)

* [Bootstrap 3](http://docs.google.com/styling/bootstrap.html)
* [Bootstrap 4](http://docs.google.com/styling/bootstrap4.html)
* [Foundation styling](http://docs.google.com/styling/foundation.html)
* [jQuery UI styling](http://docs.google.com/styling/jqueryui.html)
* [Semantic UI styling](http://docs.google.com/styling/semanticui.html)
* [Icons](http://docs.google.com/styling/icons.html)

Please refer to the [DataTables documentation](http://www.datatables.net) for full information about its API properties and methods.

Additionally, there are a wide range of [extensions](http://www.datatables.net/extensions) and [plug-ins](http://www.datatables.net/plug-ins) which extend the capabilities of DataTables.

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